



Space and Naval Warfare Systems Center Atlantic Update

Charleston Defense Contractors Association
**41st Small Business Industry Outreach
Initiative Symposium**
8 September 2016

CAPT Scott Heller
Commanding Officer
Mr. Chris Miller
Executive Director

Agenda

- ▼ V2 - Work and Workforce Guideposts
- ▼ Thrust Area Successes
- ▼ Cost model for IMO
- ▼ Work/Workforce Trends
 - Demand Signals
- ▼ Command Process and Tool Lifecycle
- ▼ Contracts
 - Y-o-Y Trend Analysis
- ▼ Left Side of Contracts
 - Contracts Lifecycle
 - GIGO
 - Efforts to Improve
 - Forecasting and Tracking Metrics
 - Communications with Industry
 - Technical Exchanges

V2 DRAFT

Shaping our Work and Workforce Guideposts

What We Provide:

Naval Engineering Services
Delivering Information Warfare
Capability

Key Tasks:

- Project/Program Management
- Research
- SoS Engineering
- Requirements
- Design
- Development
- Integration
- Production
- Installation
- Test and Evaluation
- Quality Assurance
- Sustainment
- PBLO/Logistics Engineering

Technical Growth Areas:

1. Cyber Warfare
2. Big Data Technologies
3. Assured Communications
4. Cloud Computing
5. Enterprise Resource Tools
6. Collaboration
7. Autonomy
8. Embedded Systems
9. Mobility

- 1) Leadership (SYSCOM, ASN (RDA)) Directed Tasks.
- 2) PEO C4I, PEO EIS, and MARCORSYSCOM (core customers).
 - Goal: Be the “easy button” for our core customers.
 - This will allow us to grow our base and remain competitive.
- 3) Improves Naval Information Warfare, funded by a Naval customer.
- 4) Improves Naval Information Warfare, not funded by a Naval customer.
 - Direct contribution to Naval Mission Thread.
 - COCOM Engineering Support.
 - Indirect contribution to Mission Thread or Naval interface (Agency, Service, other...).
- 5) Engineering Services (Non-Naval); Annual review by CO/ED.
 - Develops knowledge, skills, and abilities the Navy and Marine Corps require.
 - Aligned with Technical Growth Area priorities.
 - Protects our ability to surge.
 - This implies that when the opportunity to surge into priority 1-3 tasks exist, we do.
 - Minimize the harm, but these are areas to shape our way out of in order to free resources for a higher priority.

Thrust Area Successes

C4I/FR- Thrust Area Design, Integration, Production, Installation, Test & Evaluation

Provided CSRR Swing Set racks for Wideband Master Plan 68 providing the means for an overall 30-day reduction in installation time (reducing from 120 days to 90).



Ship, Submersible, Ballistic, Nuclear (SSBN) Operational Availability (Ao) swing set effort enabled the Fleet Readiness Directorate (FRD) Installation AIT to focus on other areas vital to meeting critical path schedule.

C4I/FR- Thrust Area Navy Tactical Cloud Software Development

Successfully executed pre-pilot Navy Virtual Schoolhouse training solution developed to educate Network Security Vulnerability technicians skilled in managing virtual environments for CANES.



Having a single virtual environment allows the hosting of training management, virtual infrastructure and all of the practical hands-on training scenarios in a dedicated secure environment.

www.navy.mil/submit/display.asp?story_id=95685

CNO discusses accelerated learning during the ASNE conference

NFS- Thrust Area Predictive/Operational Analytics

Sailors tested Tactical Cloud Reference Implementation (TCRI) onboard the USS Carl Vinson as part of the Naval Integrated Tactical-Cloud Reference for Operational Superiority (NITROS) demonstration during Trident Warrior. TCRI is a big data ecosystem and analytics cloud platform that can improve antisubmarine warfare, air and missile defense, cyber warfare readiness and other warfighting capabilities.

DCGS-N deployed two TCRI nodes in NITROS, enabling fused C2 and Combat data and a Common Operational Picture.



NFS- Thrust Area Cyber T&E

Joint Red Team **performed cooperative Penetration Vulnerability Assessment of the Precision Strike Package on the new AC-130J Ghost rider gunship** enabling an understanding of how enemies could effectively attack the system.

USSCOCOM has engaged the team for the next release as well as the airframe avionics and other electronics systems.



Thrust Area Successes (Cont'd)

EIS- Thrust Area Enterprise Business Solutions

SSC Atlantic is the **Technical leadership provider for the Navy Maritime Maintenance Enterprise Solution Technical Refresh (NMMES-TR) and Analysis of Alternatives (AoA).**

Providing the Enterprise Solution for Shore Maritime Maintenance at the Intermediate and Depot Level.

**Today:
Leading the
NMMES AoA**

- ✓ Security
- ✓ Mobility
- ✓ Analytics
- ✓ Interoperability & Data Sharing



**FY17 and Beyond:
Serving Key Technical
Roles in PMO**

- Acquisition Manager
- Lead Engineer
- SoS Engineer/Interfaces Lead
- Tech Standards/Data Architect
- Hosting Technical Architect
- IT Specialist (PLY/PLNS)

USMC/SOCOM Thrust Area Engineering the USMC ISR Enterprise SSC Atlantic has met the capabilities and requirement and **has achieved Initial Operational Capability for the Communications Emitter Sensing & Attacking System II (CESAS II).**

Providing the capabilities for Marine Corps Systems Command, Program Manager Marine Intelligence.



EIS- Thrust Area Cloud Capabilities

Successfully Maintaining Cyber Security and Audit Readiness.

Data Center Hosting Services IPT has transitioned from “surge” for inspections to a “continuous readiness” tempo. Commercial customers are being integrated; first self-assessment scheduled for November 2016.

Highly successful Command Cyber Readiness Inspections:

CHAS NEDC CCRI 2-6 May 2016

Overall score: 86.8

Current Maintenance Score: 73.4

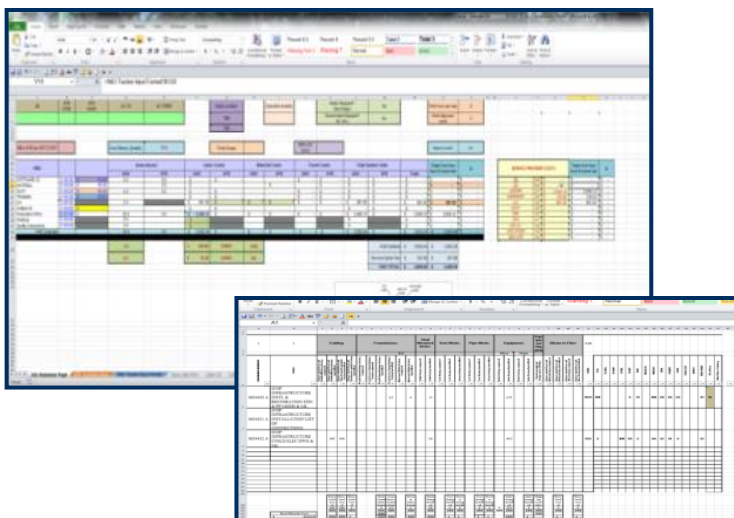
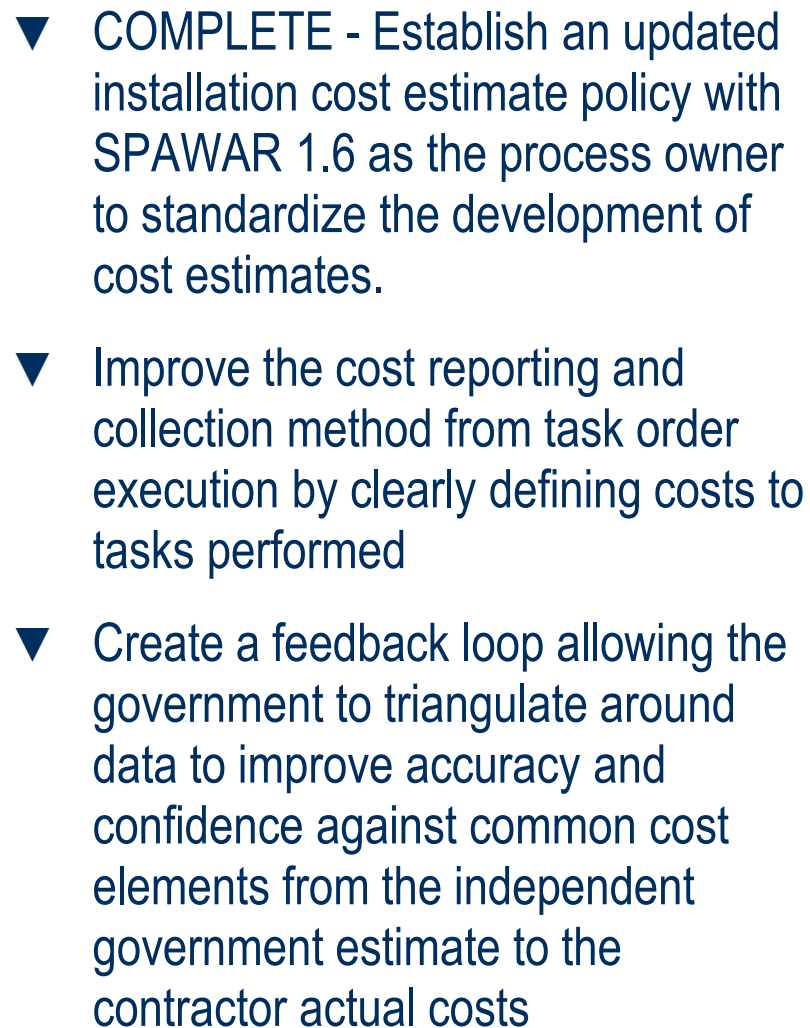
NOLA NEDC TAV 18-22 July 2016

Overall score: 79.1

Current Maintenance Score: 70.6



Functional Alignment of Installation Mgmt Offices to Improve Effectiveness and Efficiency



Work/Workforce Trends

New Orders

Top 5 Sponsor s- NWCF, IDC and GF

EOFY 15			EOM JUL	
Rank	Sponsor	\$M	Sponsor	\$M
1	SPAWAR & PEOs	\$684.6	SPAWAR & PEOs	\$624.4
2	MARCORSYSCOM	\$368.5	MARCORSYSCOM	\$300.0
3	NAVSEA & PEOs	\$204.4	Defense Health	\$278.4
4	Defense Heath	\$177.4	NAVSEA & PEOs	\$188.8
5	USAF Air Combat Cmd	\$85.3	DISA	\$84.4
% of Total New Orders		61%	65%	

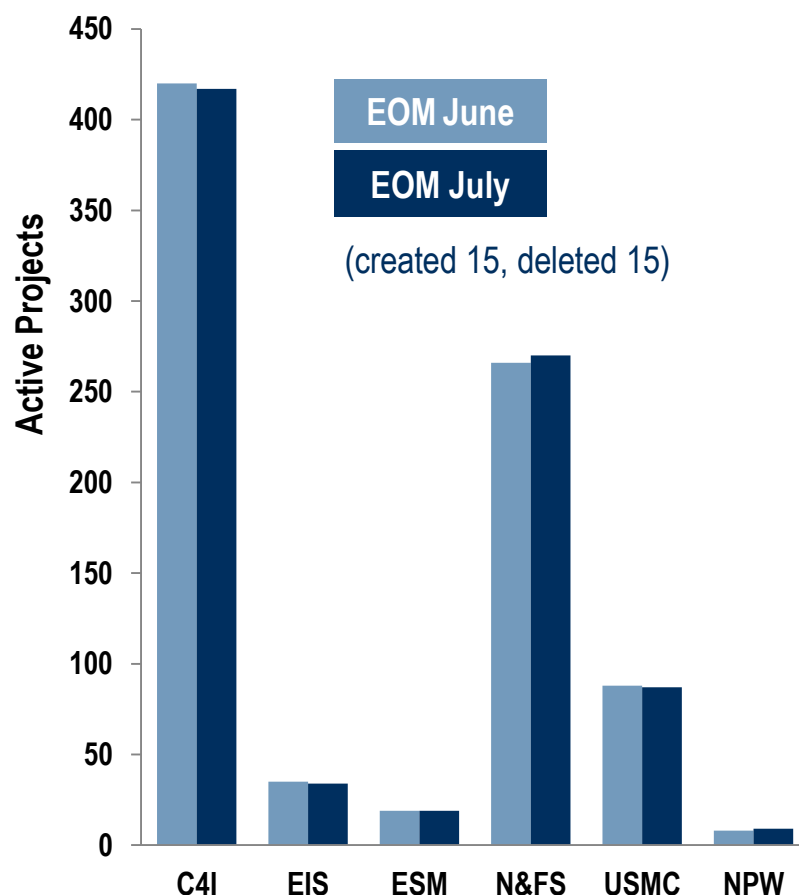
FTEs

Top 5 Sponsor s- NWCF and GF

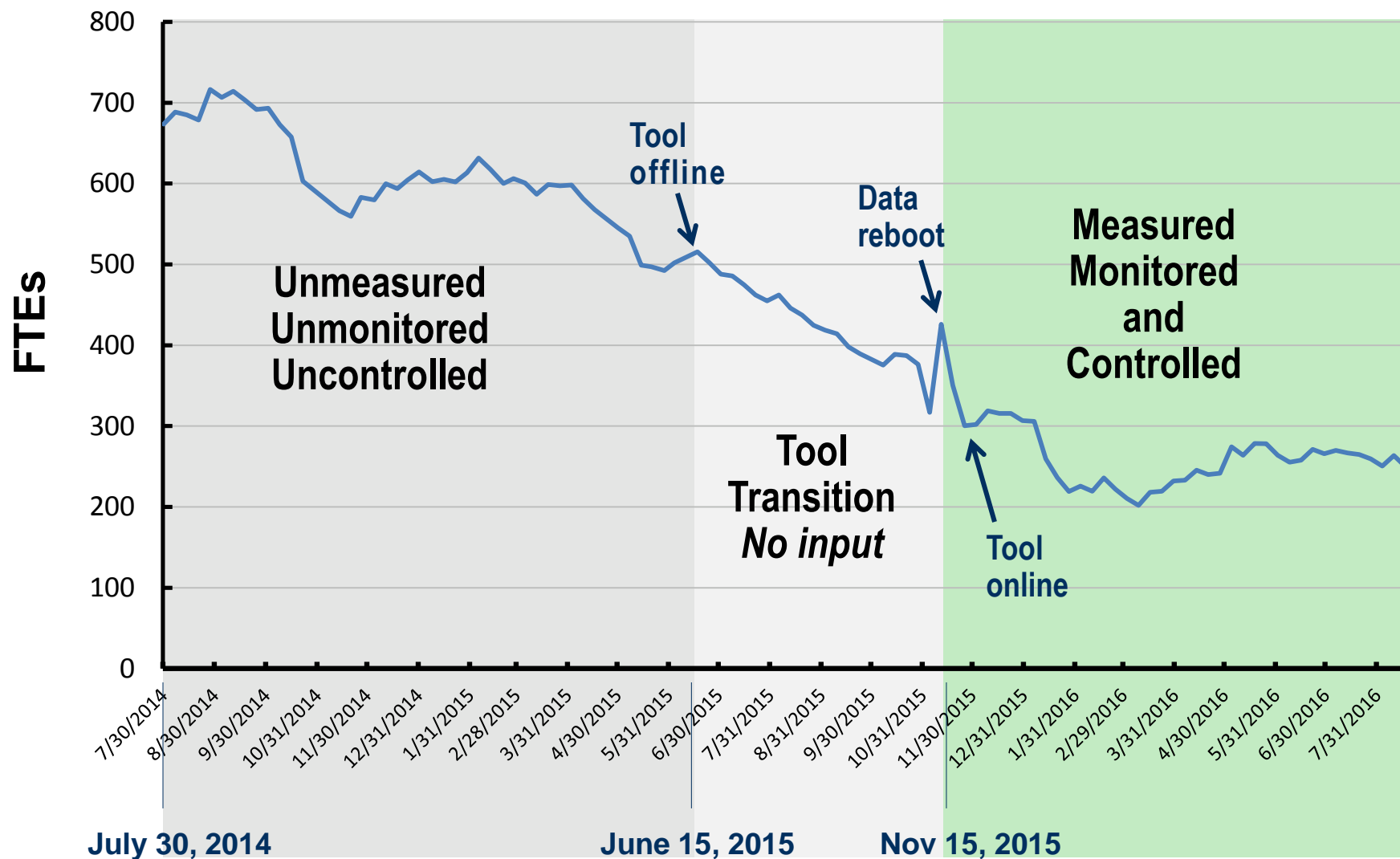
EOFY 15			EOM JUL	
Rank	Sponsor	FTE	Sponsor	FTE
1	SPAWAR & PEOs	1,063.1	SPAWAR & PEOs	1,145.5
2	MARCORSYSCOM	391.1	MARCORSYSCOM	397.2
3	NAVSEA & PEOs	243.7	NAVSEA & PEOs	254.7
4	Defense Health	105.5	Defense Health	159.8
5	USSOCOM	98.7	USSOCOM	97.5
% of Total FTEs		65%	69%	

Projects

Active P2MC (Total:850)



Open Demand Signals



Command Process & Tool Lifecycle

- ▼ Leverage systems engineering lifecycle approach for Command Process & Tool related objectives and tasks
- ▼ Expect to align implementation and execution creating organizational efficiencies

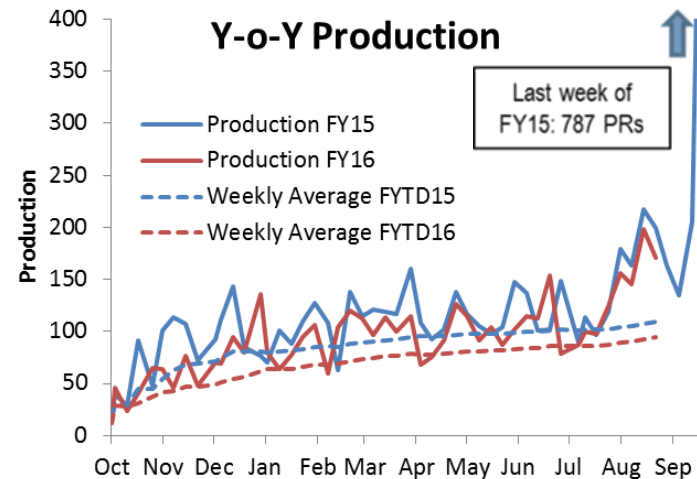
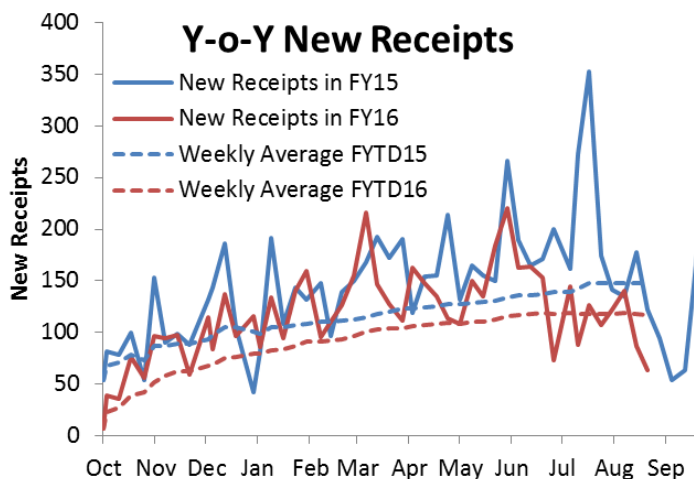
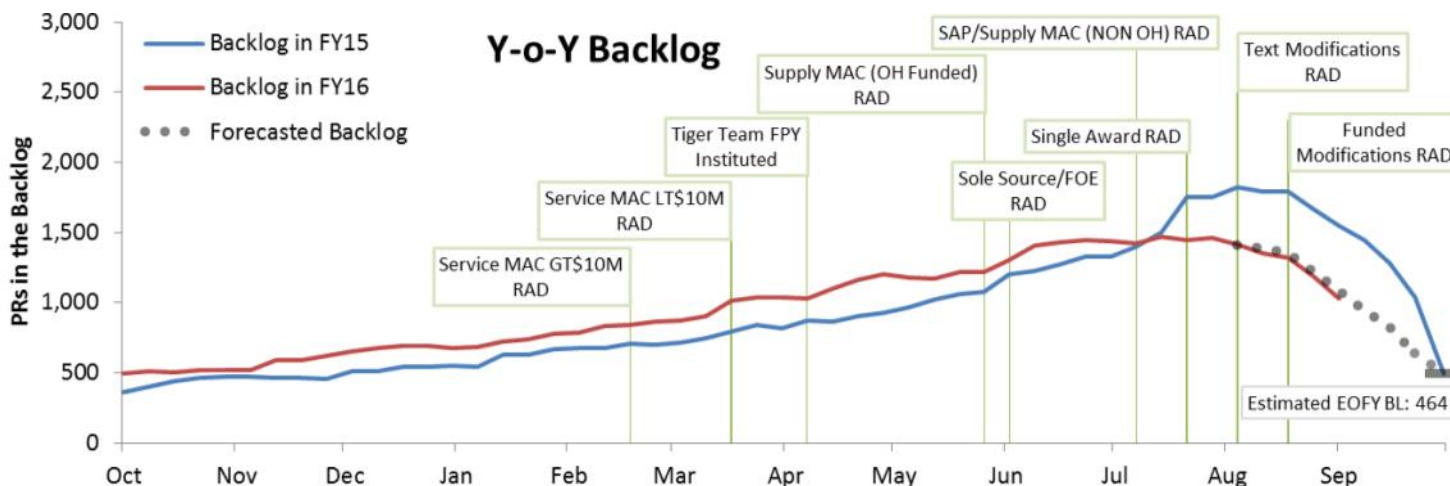
SoS Engineering ... 1st Steps

- ▼ Common Language
- ▼ Common Tools

Run the Library, projects write most of the books

Contracts Year-Over-Year Trend Analysis

- ▼ \$50M approval threshold restored
- ▼ Alignment to Portfolios and increased staffing
- ▼ Cost Analysis team implemented
- ▼ Improvements in boarding and source selection processes - quality of documentation is improved
- ▼ Planning (via PPABs) has shifted our work and reduced overall backlog compared to last year

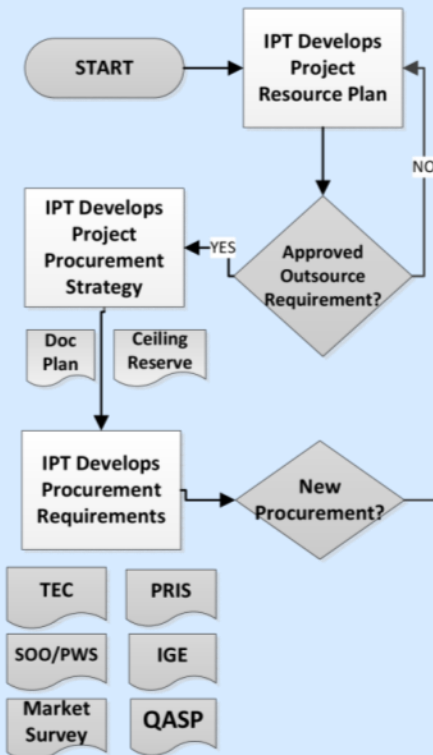




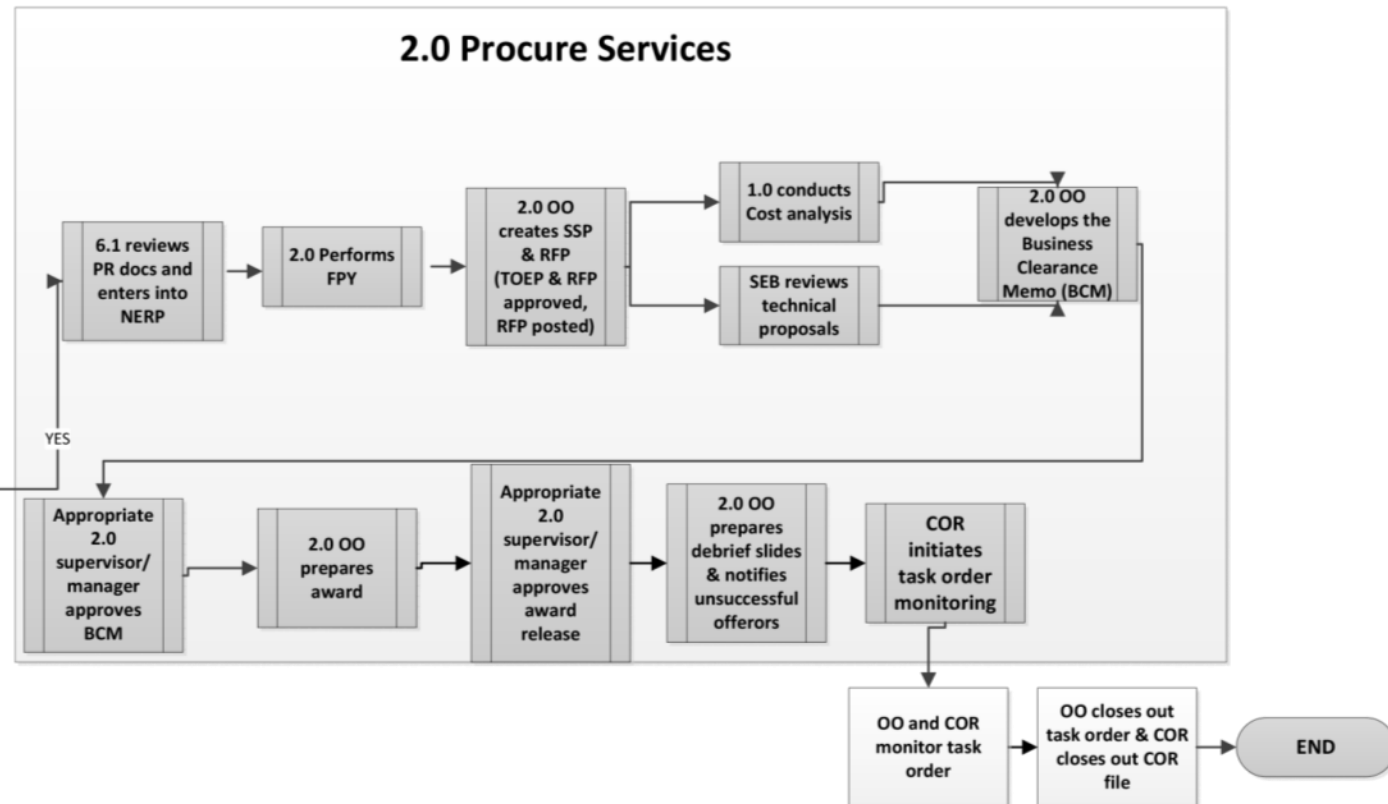
Left Side of Contracts

Contracts Lifecycle

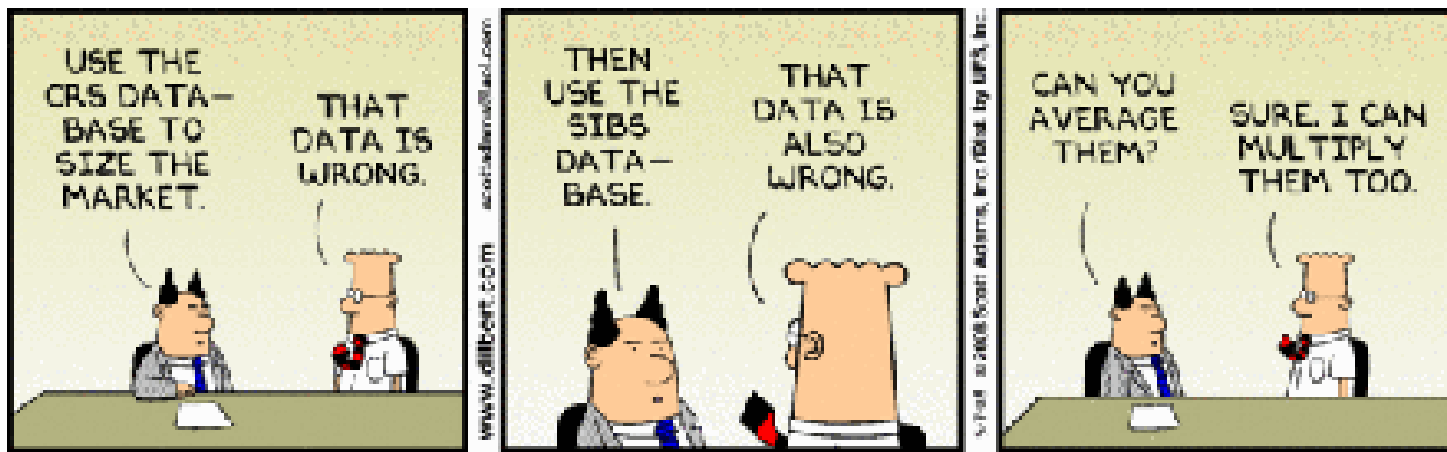
Planning & Requirements



Solicitation and Award



Garbage In, Garbage Out (GIGO)



Wikipedia: GIGO is commonly used to describe failures in human decision-making due to faulty, incomplete, or imprecise data. This sort of issue obviously predates the computer age, but the term can still be applied.

"A loading computer is an effective and useful tool for the safe running of a ship. However, its output can only be as accurate as the information entered into it."

– Marine Accident Investigation Branch,
SAFETY FLYER Hoegh Osaka:
Listing, flooding and grounding on 3 Jan 2015^[3]



Near Term Efforts to Improve

- ▼ Improved forecasting and tracking metrics
- ▼ Meaningful communications with industry
 - Industry Days
 - Technical Exchanges
 - Reverse Contracting (Dec SBIOL)

Goal: Increase awareness, communication and collaboration with industry without giving an unfair competitive advantage on future opportunities

Improved Forecasting and Tracking Metrics

▼ Two primary goals:

- Improve awareness of upcoming contracts and orders
- Shorten cycle time between approval of acquisition strategy and submission of Procurement Request (PR)

▼ Plan to issue first forecast by the end of November to support SBIOI

- Will use SPAWAR Enterprise template
- Issue updates quarterly; goal is monthly by end of FY17
- Contract Resource Managers (CRM) own the forecast data

▼ Two primary metrics:

- % of contract /orders awards that were included in forecast at least 3 months prior to RFP release
- Cycle time between PPAB (acquisition strategy) and PR entered into Navy ERP. Goal is 10 working days

Communications with Industry

- ▼ Industry Days – led by 2.0 on specific contracts or orders
 - Typically larger, more complex actions
 - Benefit in sharing SSC Atlantic's strategy and requirements and receiving industry input
 - Usually in conjunction with a draft RFP to maximize input from industry to shape final RFP requirements
- ▼ Initial Thresholds:
 - Any contract action over \$100M
 - Any task order over \$50M

Upcoming Industry Days Task Orders

October

- PR **1300578579** (USMC/SOCOM)
 - C4ISR Contractor Logistics Support & Sustainment
- PR **1300558664** (USMC/SOCOM)
 - Marine Corps Intelligence Support
- PR **1300549480** (NFS)
 - Clinical Infrastructure Modernization (CIM) for Defense Health Agency (DHA)

November

- PR **1300567690**; 1300567801; 1300567802 (USMC/SOCOM)
 - Digital Integration Facility (DIF) Requirements

Large Contract Actions

November

- **N65236-16-R-0026**
 - Cyber Mission Engineering Services
- **N65236-16-R-0027**
 - Cyber Mission Assurance Services
- **N65236-16-R-0036**
 - Cyber Mission Systems, Kitting, and Supplies

December

- **N65236-16-R-0001**
 - USMC Intelligence Analysis System Advanced Analytics Technical Solution

Technical Exchanges

- ▼ Used to investigate and identify efficiencies and innovative solutions in technical growth areas
 - Three phased approach (Review ideas/Exchange/Follow Up)
 - NOT a Business Development Meeting
 - Will include “One-on-One” sessions with Government Technical Growth Lead and IPT members to Industry Technical Subject Matter Experts
- ▼ Based upon Command’s Technical Strategy
 - Plan to release next week
- ▼ The C5ISR conference will include Technical Villages focused around Technical Growth Areas
 - Use as spring board to Technical Exchanges in 2017
- ▼ Goal is Two Growth Areas per quarter

Technical Growth Areas

1. Cyber Warfare
2. Big Data Technologies
3. Assured Communications
4. Cloud Computing
5. Enterprise Resource Tools
6. Collaboration
7. Autonomy
8. Embedded Systems
9. Mobility

Final thought

